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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/756,825	01/13/2004		Yi Lu	ILL05-041-US	3704	
43320	7590	08/14/2006		EXAMINER		
EVAN LAV 600 WSET J	_	IP LLC I BLVD., SUITE 625	PANDE, SUCHIRA			
CHICAGO, IL 60661				ART UNIT	PAPER NUMBER	
				1637	1637	

DATE MAILED: 08/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Community	10/756,825	LU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Suchira Pande	1637					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
·_ ·							
·= ·-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	n · · ·						
·							
	4) Claim(s) 1-41 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
6) Claim(s) is/are rejected.	5) Claim(s) is/are allowed.						
7) Claim(s) is/are objected to.							
	7) Claim(s) is/are objected to.  3) Claim(s) <u>1-41</u> are subject to restriction and/or election requirement.						
	nosion roquiromoni.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa						

Application/Control Number: 10/756,825 Page 2

Art Unit: 1637

## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-8 and 17-25, drawn to a sensor system (product), classified in class 536, subclass 23.1 for example.
  - II. Claims 9-16 and 26-41, drawn to a method (process), classified in class435, subclass 6 for example.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the process of detecting an effector or cofactor of invention II can be practiced using classic biochemical analytical methods well known in the art that are applicable to allosteric (deoxy) ribozymes which do not require sensors of invention I. Therefore inventions I and II are distinct. A search for the different conditions of the claimed method steps of invention II, will not provide information about the structural components of the sensors of invention I. Hence the two searches are not coextensive. Searching for the two inventions will impose a serious search burden on the examiner.

Art Unit: 1637

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

3. This application contains claims directed to the following patentably distinct Restriction Subgroups of the claimed invention. After election of one of the Groups above, Applicant is required to also elect a restriction subgroup. This is not a species election. Applicant will be required to cancel non-elected subject matter upon indication of allowable subject matter.

## **Restriction Subgroups**

**A.** Enzymes comprises a polynucleotide having a sequence of (claims 1, 2, 17, 18 are generic):

- a. SEQ ID Nos: 1 (claim 6 in part, claim 23 in part, claim 39 in part),
- b. SEQ ID Nos: 5 (claim 7 in part, claim 24 in part, claim 40 in part)
- c. SEQ ID Nos: 6 (claim 7 in part, claim 24 in part, claim 40 in part)
- d. SEQ ID Nos: 8, (claim 8 in part, claim 25 in part, claim 41 in part)
- e. SEQ ID Nos: 9, (claim 8 in part, claim 25 in part, claim 41 in part)
- B. Substrate comprises a polynucleotide having sequence of:
- f. SEQ ID Nos: 2 (claim 6 in part, claim 23 in part, claim 39 in part)

g. SEQ ID Nos: 4 (claim 7 in part, claim 24 in part, claim 40 in part)

h. SEQ ID Nos: 7 (claim 8 in part, claim 25 in part, claim 41 in part)

Each of the enzymes and substrates enumerated above (a-h) comprise a patentably distinct subgroup because each SEQ ID no represents a structurally unique molecule.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed Subgroup consisting of **single** SEQ ID No from a-e for the enzyme enumerated above in category A and **single** SEQ ID No from f-h for the substrate enumerated above in category B for prosecution on the merits to which the claims shall be restricted.

Applicant is advised that a reply to this requirement must include an identification of the restriction subgroup that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election. Should applicant traverse on the ground that the Restriction Subgroups are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the Restriction Subgroups to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise

Application/Control Number: 10/756,825

Art Unit: 1637

require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

Page 5

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suchira Pande whose telephone number is 571-272-9052. The examiner can normally be reached on 8:30 am -5:00 pm.

Application/Control Number: 10/756,825

Art Unit: 1637

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Suchira Pande Examiner Art Unit 1637

TERESA E. STRZELECKA, PH.D. PRIMARY EXAMINER Teresa Stuelectea 8/1106

Page 6